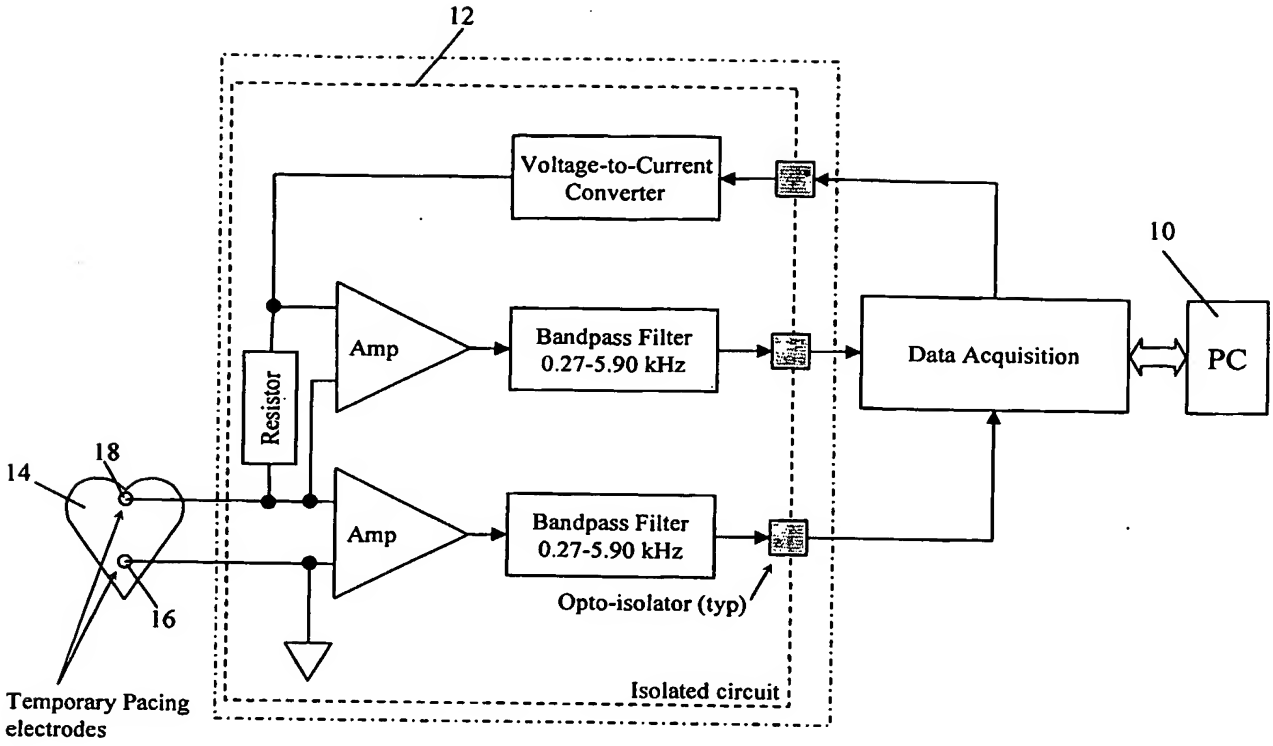
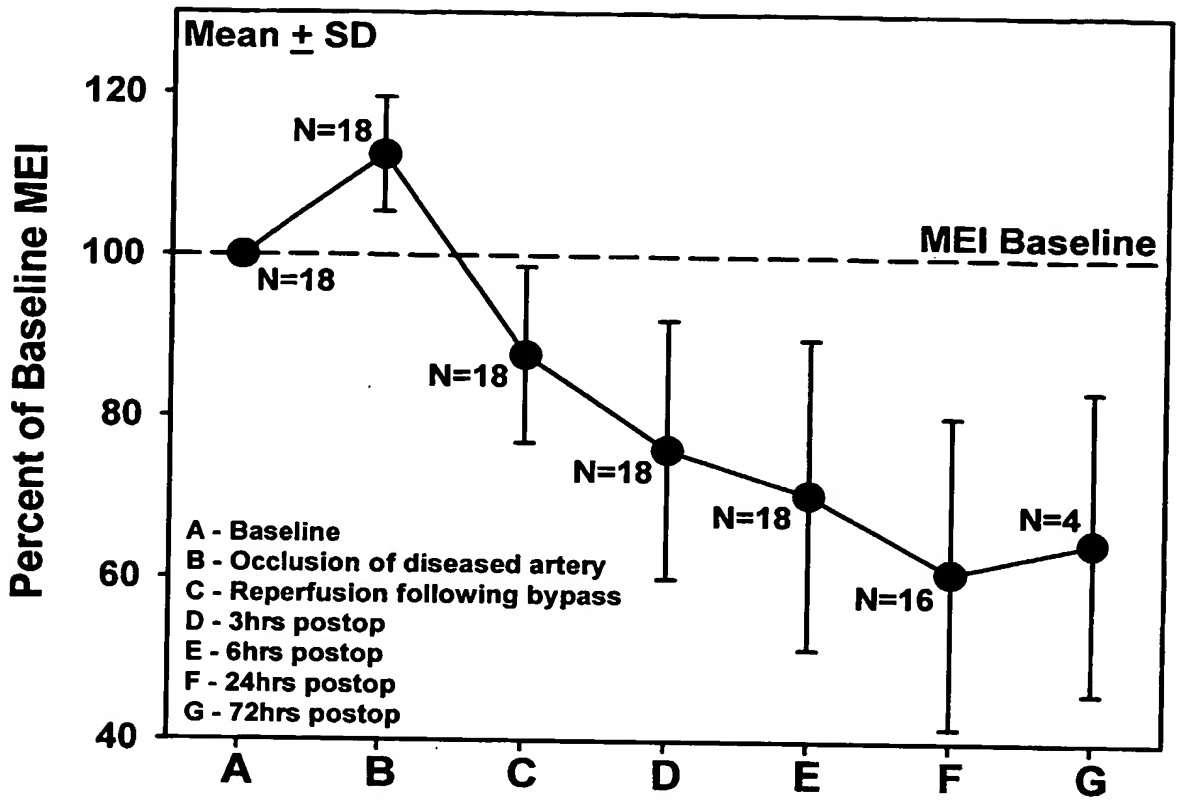
Fig. 1



Patient ID	Age	Gender	Targeted Vessel	% Stenosis	Comments
2	60	M	LAD	100	
3	73	M	LAD	90	
4	74	M	LAD	100	
5	58	M	LAD	95	
6	64	F	LAD	85	
7	59	F	LAD	75	
8	41	M	LAD	70	
9	53	M	LAD + 1st Di-agonal	85	1st diagonal 85% stenosed
10	62	M	LAD	70	
11	72	F	LAD + 1st Di-agonal	95	1st diagonal 50% stenosed
12	52	F	RCA	80	
14	49	F	LAD	85	
15	51	F	LAD	95	
16	54	M	LAD	70	
17	63	M	LAD	100	
18	49	M	LAD	80	
19	67	F	LAD + 1st Di-agonal	75	1st diagonal 95% stenosed
20	50	M	LAD	70	

Fig. 2

Fig. 3


Mean ± SD
Percent of Baseline MEI
120
100
80
60
40
N=18
N=18
N=18
N=18
N=18
N=16
N=4
MEI Baseline
A - Baseline
B - Occlusion of diseased artery
C - Reperfusion following bypass
D - 3hrs postop
E - 6hrs postop
F - 24hrs postop
G - 72hrs postop
A
B
C
D
E
F
G

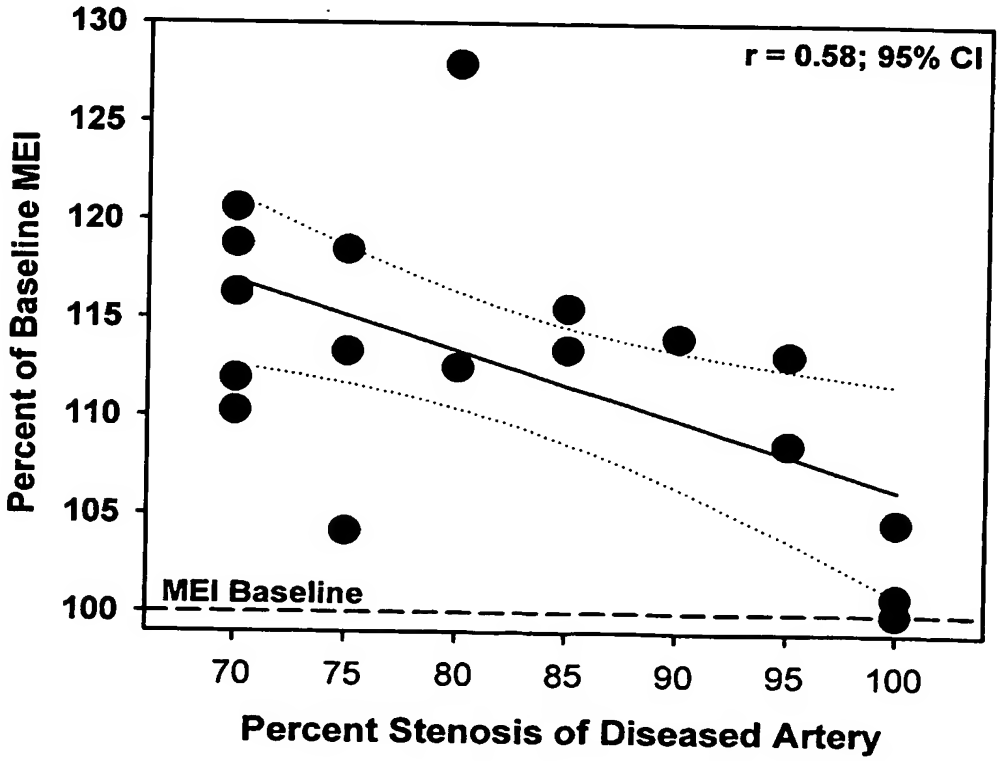

r = 0.58; 95% CI
Percent of Baseline MEI
130
125
120
115
110
105
100
MEI Baseline
70
75
80
85
90
95
100
Percent Stenosis of Diseased Artery

Fig. 4

Fig. 5

Parameter	*P (n=7)*	*D (n=10)*	*H (n=7)*
Baseline (W) *,†	444.0±66.81	780.8±38.81	489.1±134.80
Time to plateau (min) *,†	4.7±1.15	46.3±12.93	4.1±1.91
Normalized Plateau (%) ‡,*	15.3±4.65	19.6±2.59	11.0±6.01

[1]†: P<0.05 P vs. D, ‡: P<0.05 P vs. H, *: P<0.05 D vs. H.

Fig. 6

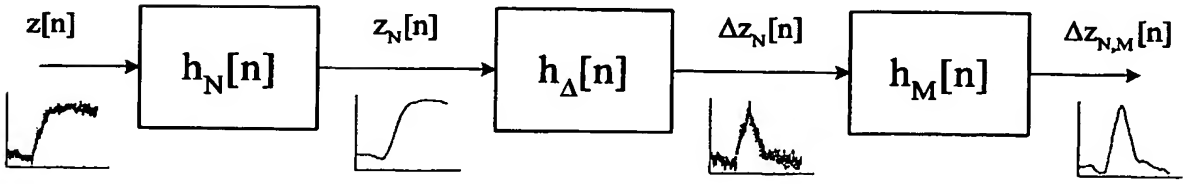


Fig. 7

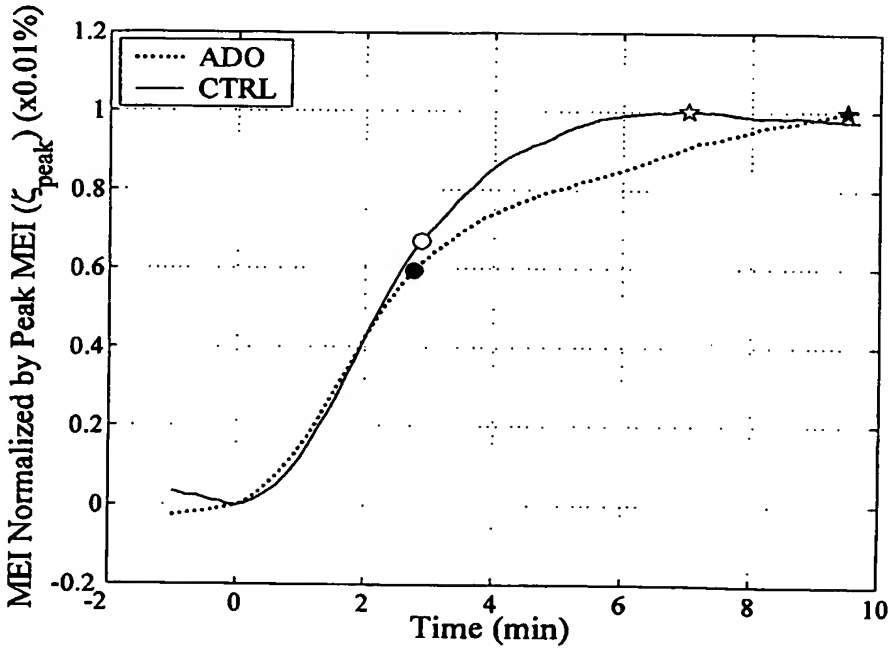


Fig. 8

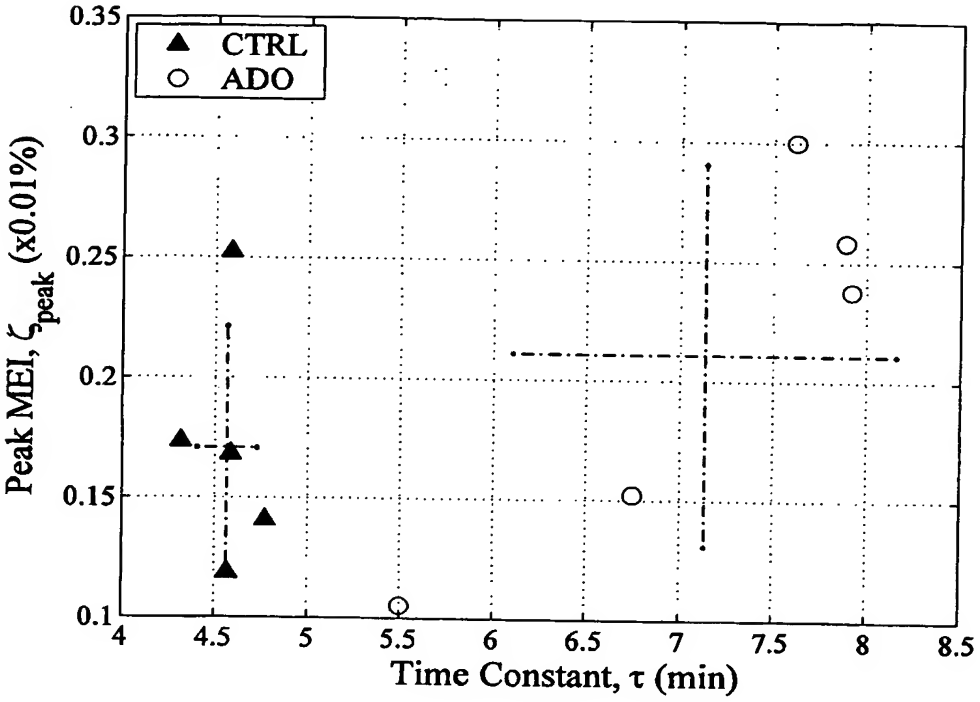
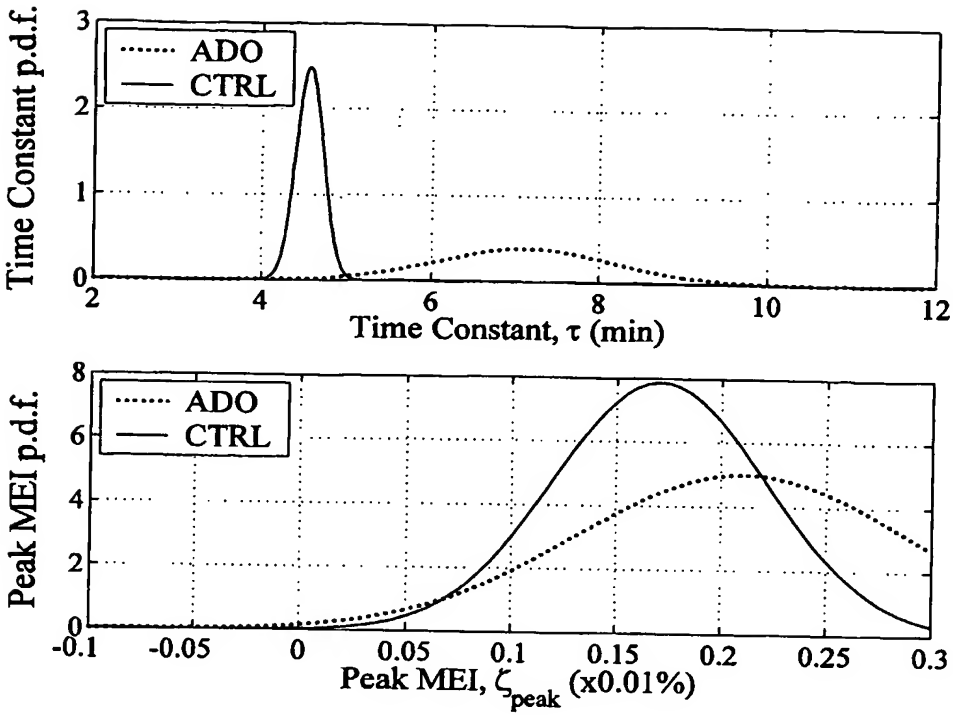


Fig. 9

MEI Parameter	*ADO (n=5)*	*CTRL (n=5)*
Peak MEI (ζ_{peak}, %)	21.08 ± 7.98	17.06 ± 5.01
UT (t_u, min)	2.76 ± 1.65	2.89 ± 0.95
TC (τ, min)(*)	7.13 ± 1.03	4.56 ± 0.16

Fig. 10



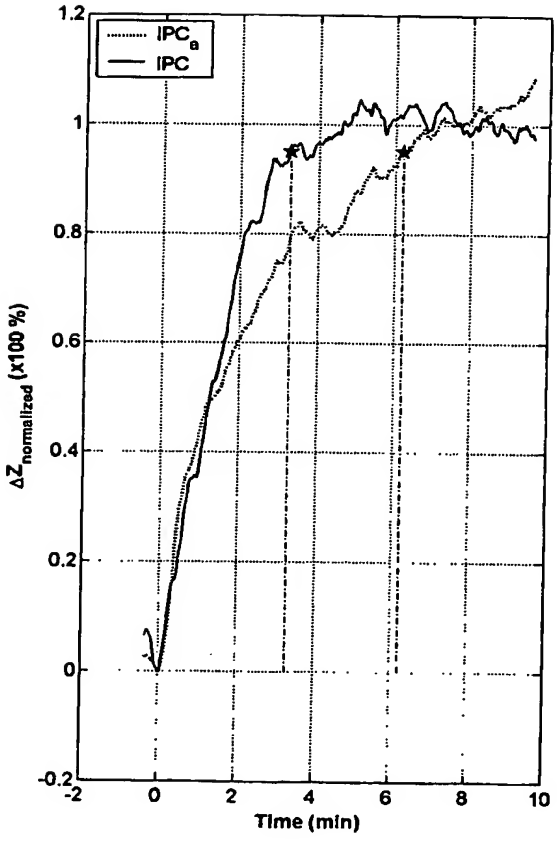


Fig. 11

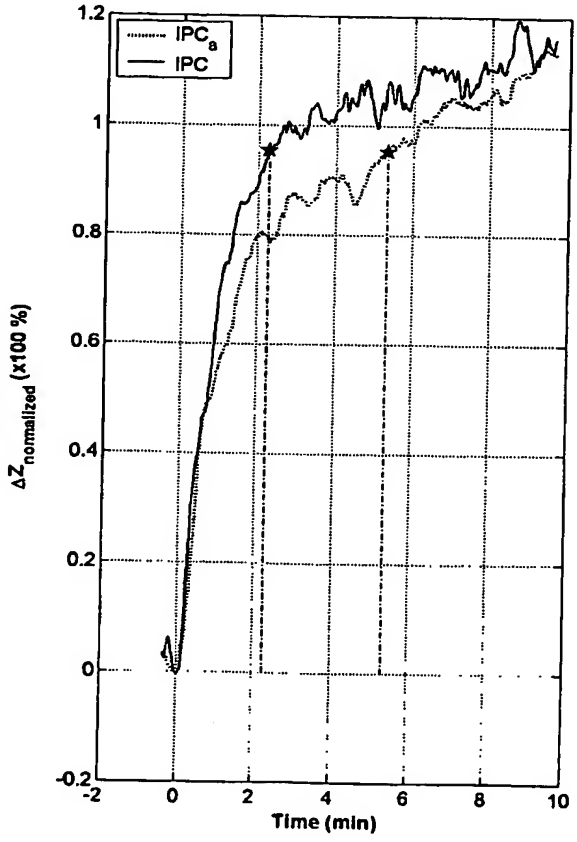


Fig. 12

Fig. 13

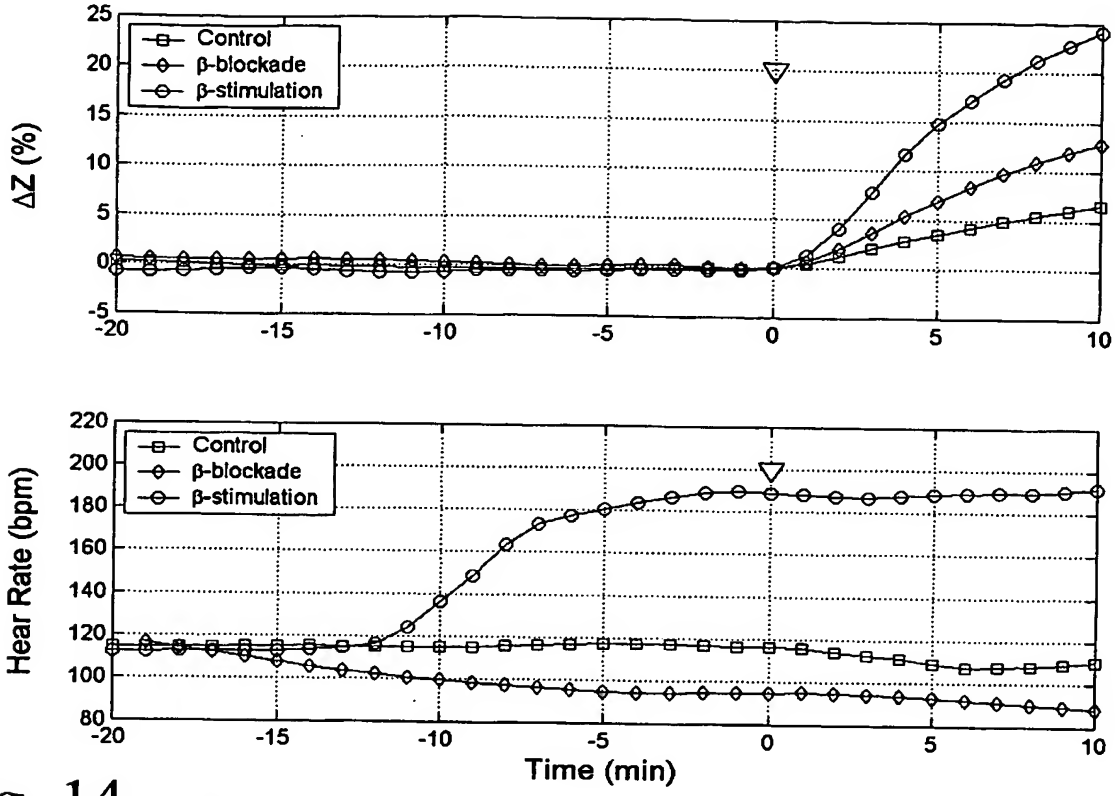


Fig. 14

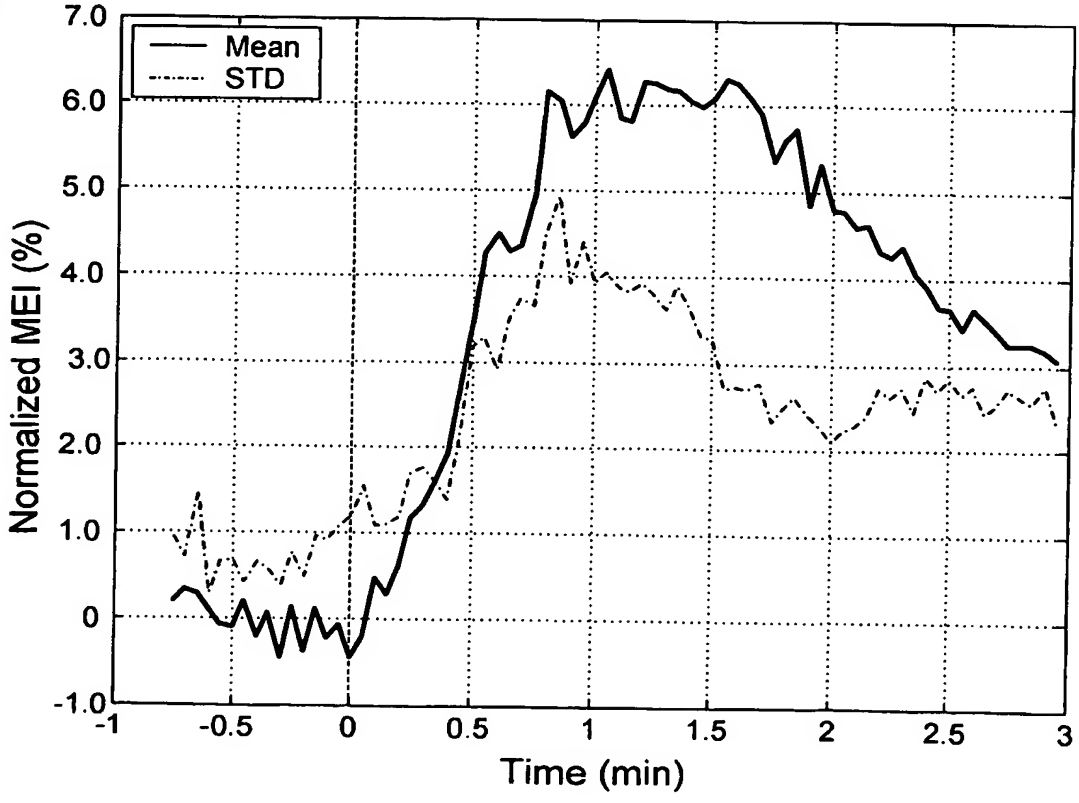


Fig. 15